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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/780,817	02/09/2001	Peter Fredrik Janson	30566.118-US-01	9863		
22462	7590 11/07/2003		EXAMINER			
GATES & CO	OOPER LLP UGHES CENTER	KE, PENG				
6701 CENTER DRIVE WEST, SUITE 1050 LOS ANGELES, CA 90045			ART UNIT	PAPER NUMBER		
			2174	15		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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•	_	Application No.		Applicant(s)	A			
Office Action Summary		09/780,817		JANSON, PETER FREDRIK				
		Examiner		Art Unit				
		Peng Ke		2174				
The MAILING DATE Period for Reply	E of this communication app	ears on the cover	sheet with the co	rrespondence add	dress			
THE MAILING DATE OF - Extensions of time may be availal after SIX (6) MONTHS from the n - If the period for reply specified ab - If NO period for reply is specified - Failure to reply within the set or e	TORY PERIOD FOR REPLY THIS COMMUNICATION. ble under the provisions of 37 CFR 1.13 nailing date of this communication. ove is less than thirty (30) days, a reply above, the maximum statutory period w xtended period for reply will, by statute, ater than three months after the mailing see 37 CFR 1.704(b).	36(a). In no event, howe within the statutory min will apply and will expire to cause the application to	ver, may a reply be time imum of thirty (30) days SIX (6) MONTHS from the become ABANDONED	ly filed will be considered timely ne mailing date of this co (35 U.S.C. § 133).				
1) Responsive to con	nmunication(s) filed on	·						
2a) This action is FINA	AL . 2b)⊠ Th	is action is non-fi	nal.					
	ion is in condition for allowance with the practice under				e merits is			
·	e pending in the application							
			ation.					
<u></u>	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed.							
· · · —	6)⊠ Claim(s) <u>1-27</u> is/are rejected.							
8) Claim(s) are	subject to restriction and/o	r election require	ment.					
Application Papers								
,	objected to by the Examine							
	on is/are: a)□ accep	, ,	•					
, ,	equest that any objection to the		_ •					
	ng correction filed on			ed by the Examine	эг.			
If approved, corrected drawings are required in reply to this Office action. 12)☐ The oath or declaration is objected to by the Examiner.								
•	-	ariiner.						
Priority under 35 U.S.C. §§		a mainaitu umalaa 26		(d) or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
· _ ·	a) All b) Some * c) None of:							
<u> </u>	1. Certified copies of the priority documents have been received.							
3.☐ Copies of the	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	on from the International Bu cailed Office action for a list			i .				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 								
Attachment(s)								
Notice of References Cited (P Notice of Draftsperson's Pater Information Disclosure Statem	nt Drawing Review (PTO-948)	4)		(PTO-413) Paper No(atent Application (PT				

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7, 10-16, and 19-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Hao et al. (US 6,377,287)

As per claim 1, Hao et al. teaches a computer-implemented method for synchronizing data between a graphical client and a server, comprising:

- (a) downloading one or more root object nodes of a scene from the server to the graphical client (col. 3, lines 10-28, col.3, lines 42-56);
- (b) intersecting bounding volumes for the object nodes with a view frustum in the graphical client to determine a set of visible and undefined object nodes (col. 3, lines 42-56); and
- (c) downloading the object nodes in the set of visible and undefined object nodes from the server to the graphical client (col.7, liens 35-51).

As per claim 2, Hao et al. teaches the method of claim 1, further comprising:

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(d) determining whether the downloaded object nodes reference other object nodes; and

(e) repeating steps (b) and (c) for the other object nodes (col. 5, lines 28-44).

As per claim 3, Hao et al. the method of claim 2, further comprising:

repeating steps (d) and (e) until the set of visible and undefined object nodes is empty (col. 5, lines 7-28; Examiner infers dynamic hidden links to be all the possible undefined objects).

As per claim 4, Hao et al. teaches the method of claim 3, further comprising rendering the scene when the set of visible and undefined object nodes is empty (col. 5, lines 28-60; It is inherent that, only after the status in reference to the root node for all the other nodes are determined, the system can generate the appropriate display for the user).

As per claim 5, Hao et al. teaches the method of claim 4, further comprising repeating steps (a) through (f) when a camera changes the scene (col. 5, lines 8-35; Examiner infers navigating the secondary node by linking on a child node to be a camera changing the scene).

As per claim 6, Hao et al. teaches the method of claim 1, wherein the downloading step (a) comprises downloading descriptions of the root object nodes from the server to the graphical client, wherein the descriptions include references to other object nodes comprising unique persistent identifiers for the referenced object nodes with their associated bounding volumes (col. 7, lines 23-35; Examiner infers to frequency of navigation to be unique persistent identifiers for the references to other object nodes with their associated bounding volumes).

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As per claim 7, Hao et al. teaches the method of claim 1, wherein the downloading step (a) comprises downloading descriptions of the object nodes from the server to the graphical client, wherein the descriptions include references to other object nodes comprising unique persistent identifiers for the referenced object nodes with their associated bounding volumes (col. 7, lines 23-35; Examiner infers to frequency of navigation to be descriptions include references to other object nodes).

As per claim 10, it is rejected with same rationale as claim 1. (see rejection above)

As per claim 11, it is of the same scope as claim 2. (see rejection above)

As per claim 12, it is of the same scope as claim 3. (see rejection above)

As per claim 13, it is of the same scope as claim 4. (see rejection above)

As per claim 14, it is of the same scope as claim 5. (see rejection above)

As per claim 15, it is of the same scope as claim 6. (see rejection above)

As per claim 16, it is of the same scope as claim 7. (see rejection above)

As per claim 19, it is rejected with same rationale as claim 1. (see rejection above)

As per claim 20, it is of the same scope as claim 2. (see rejection above)

As per claim 21, it is of the same scope as claim 3. (see rejection above)

As per claim 22, it is of the same scope as claim 4. (see rejection above)

As per claim 23, it is of the same scope as claim 5. (see rejection above)

As per claim 25, it is of the same scope as claim 7. (see rejection above)

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8, 17, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hao et al. (US 6,377,287) in view Schmeidler et al. (US 6,374,402).

As per claim 8, Hao et al. teaches the method of claim 1. However he fails to teach wherein the server is a stateless server. Schmeidler et al. teaches using a stateless server (col. 22, lines 21-33). It would have been obvious to an artisan at the time of the invention to include Schmeidler et al.'s teaching with Hao et al's method in order to allow the server to be easily scaled by deploying more server machines.

As per claim 17, it is of the same scope as claim 8. (see rejection above)

As per claim 26, it is of the same scope as claim 8. (see rejection above)

Claims 9, 18, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hao et al. (US 6,377,287) in view Berger et al. (US 6,414,693).

As per claim 9, Hao et al. teaches the method of claim 1. However he fails to wherein the graphical client includes a cache teach. Berger et al. teaches using a cache on the client side (col. 8, line 68, col. 9, lines 1-2). It would have been obvious to an artisan at the time of the invention to include Berger et al.'s teaching with Hao et al's method in order to allow quick access to frequently used data.

As per claim 18, it is of the same scope as claim 9. (see rejection above)

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As per claim 27, it is of the same scope as claim 9. (see rejection above)

Conclusion

The following patents are cited to further show the state of the art with respect to a client server distribution system:

Lamping (US. 5,619,623) discloses: a displaying node-link structure with region of greater spacings and peripheral braches.

Robertson et al. (US 5,295,243) discloses: a display of hierarchical threedimensional structures with rotating substructures.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peng Ke whose telephone number is (703) 305-7615.

The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine L Kincaid can be reached on (703) 308-0640. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

STZVEN SAX PRIMARY EXAMINER

Peng Ke